

[illegible]

```
RRRRRRRR      EEEEEEEEEEE NN      NN      AAAAAA      MM      MM      EEEEEEEEEEE
RRRRRRRR      EEEEEEEEEEE NN      NN      AAAAAA      MM      MM      EEEEEEEEEEE
RR      RR      EE      NN      NN      AA      AA      MMMM      MMMM      EE
RR      RR      EE      NN      NN      AA      AA      MMMM      MMMM      EE
RR      RR      EE      NNNN      NN      AA      AA      MM      MM      EE
RR      RR      EE      NNNN      NN      AA      AA      MM      MM      EE
RRRRRRRR      EEEEEEEEEEE NN      NN      AA      AA      MM      MM      EEEEEEEEEEE
RRRRRRRR      EEEEEEEEEEE NN      NN      AA      AA      MM      MM      EEEEEEEEEEE
RR      RR      EE      NN      NN      AA      AA      MM      MM      EE
RR      RR      EE      NN      NN      AA      AA      MM      MM      EE
RR      RR      EE      NNNN      NN      AA      AA      MM      MM      EE
RR      RR      EE      NNNN      NN      AA      AA      MM      MM      EE
RR      RR      EE      NN      NN      AA      AA      MM      MM      EE
RR      RR      EE      NN      NN      AA      AA      MM      MM      EE
RR      RR      EEEEEEEEEEE NN      NN      AA      AA      MM      MM      EEEEEEEEEEE
RR      RR      EEEEEEEEEEE NN      NN      AA      AA      MM      MM      EEEEEEEEEEE
```

....  
....  
....  
....

```
LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS
```



```

1 0001 0 MODULE RENAME ( %TITLE 'VAX/VMS RENAME Utility'
2 0002 0 IDENT = 'V04-000',
3 0003 0 MAIN = RENAME_MAIN
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY: VAX/VMS RENAME Utility
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 This utility renames files and directories.
37 0037 1
38 0038 1 ENVIRONMENT: VAX/VMS Operating System, non-privileged user mode
39 0039 1
40 0040 1 AUTHOR: Steven B. Lionel, CREATION DATE: 04-Oct-1982
41 0041 1
42 0042 1 Adapted from RENAME V03-000, written by Greg Robert
43 0043 1
44 0044 1 MODIFIED BY:
45 0045 1
46 0046 1 03-004 BLS0282 Benn Schreiber 5-MAR-1984
47 0047 1 Use new argument to lib$delete_file for related file
48 0048 1 processing.
49 0049 1
50 0050 1 3B-003 SBL3003 Steven B. Lionel 11-Feb-1983
51 0051 1 /UIC is now /BYOWNER.
52 0052 1
53 0053 1 3B-002 SBL3002 Steven B. Lionel 19-Jan-1983
54 0054 1 Remove special case RMS$_FEX code since $RENAME now
55 0055 1 correctly handles this.
56 0056 1
57 0057 1 3B-001 SBL3001 Steven B. Lionel 4-Oct-1982

```

RENAME  
V04-000

VAX/VMS RENAME Utility

M 9  
16-Sep-1984 00:25:56  
14-Sep-1984 12:08:48

VAX-11 Bliss-32 V4.0-742  
[CLIUTL.SRC]RENAME.B32;1

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:	58	0058	1	:
:	59	0059	1	:
:	60	0060	1	:
:	61	0061	1	!--
:	62	0062	1	:

Rewritten from RENAME V03-000 to use new CLI interface,  
LIB\$RENAME\_FILE, and file selection qualification routines.



```

64 0063 1 %SBTTL 'Declarations'
65 0064 1
66 0065 1 SWITCHES:
67 0066 1
68 0067 1
69 0068 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
70 0069 1
71 0070 1
72 0071 1 LINKAGES:
73 0072 1
74 0073 1 NONE
75 0074 1
76 0075 1 TABLE OF CONTENTS:
77 0076 1
78 0077 1
79 0078 1 FORWARD ROUTINE
80 0079 1 RENAME MAIN,
81 0080 1 CONFIRM ROUTINE,
82 0081 1 LOG ROUTINE: NOVALUE,
83 0082 1 ERROR ROUTINE,
84 0083 1 ERROR_HANDLER;
85 0084 1
86 0085 1
87 0086 1 INCLUDE FILES:
88 0087 1
89 0088 1
90 0089 1 LIBRARY 'SYS$LIBRARY:STARLET';
91 0090 1
92 0091 1
93 0092 1 MACROS:
94 0093 1
95 0094 1 NONE
96 0095 1
97 0096 1 EQUATED SYMBOLS:
98 0097 1
99 0098 1
100 0099 1 +
101 0100 1 Define shared messages needed by RENAME.
102 0101 1 -
103 0102 1
104 P 0103 1 $SHR MSGDEF (MSG, 144, LOCAL,
105 P 0104 1 (NOFILES, INFO), No files selected
106 P 0105 1 (OPENIN, ERROR), Error opening input file
107 P 0106 1 (OPENOUT, ERROR), Error opening output file
108 P 0107 1 (RENAMED, INFO), File renamed
109 P 0108 1 (SEARCHFAIL, ERROR) ! Could not find file
110 0109 1 );
111 0110 1
112 0111 1
113 0112 1 FIELDS:
114 0113 1
115 0114 1
116 0115 1 +
117 0116 1 Data structure LOCAL_BLOCK (defined by LB_FIELDS) is passed as the
118 0117 1 "user argument" to LIB$RENAME_FILE, and thus to each of the action
119 0118 1 routines.
120 0119 1 -

```

```

! Main routine
! Confirm file to be renamed
! Log successful renames
! Report errors
! Intercept signalled errors

```

```
! System symbols
```



```

121 0120 1
122 0121 1 FIELD
123 0122 1 LB_FIELDS =
124 0123 1 SET
125 0124 1
126 0125 1 LB_L_WORST_ERROR = [0,0,32,0], ! Worst error so far
127 0126 1 LB_L_QUAL_CONTEXT = [4,0,32,0], ! Context for LIB$QUAL_XXX
128 0127 1 LB_L_FLAGS = [8,0,32,0], ! Flags
129 0128 1 LB_V_LOG = [8,0,1,0], ! Set if /LOG specified
130 0129 1 LB_V_FILE_SELECTED = [8,1,1,0] ! At least one file was renamed
131 0130 1
132 0131 1 TES;
133 0132 1 LITERAL
134 0133 1 LB_K_SIZE = 12; ! Size of LOCAL_BLOCK in bytes
135 0134 1
136 0135 1
137 0136 1 PSECTS:
138 0137 1
139 0138 1
140 0139 1 PSECT
141 0140 1 CODE = $CODE (READ, NOWRITE, EXECUTE, SHARE, PIC,
142 0141 1 ADDRESSING_MODE (WORD_RELATIVE)),
143 0142 1 PLIT = $CODE (READ, NOWRITE, EXECUTE, SHARE, PIC,
144 0143 1 ADDRESSING_MODE (WORD_RELATIVE)),
145 0144 1 OWN = $DATA (READ, WRITE, NOEXECUTE, NOSHARE, PIC,
146 0145 1 ADDRESSING_MODE (LONG_RELATIVE)),
147 0146 1 GLOBAL = $DATA (READ, WRITE, NOEXECUTE, NOSHARE, PIC,
148 0147 1 ADDRESSING_MODE (LONG_RELATIVE));
149 0148 1
150 0149 1
151 0150 1 OWN STORAGE:
152 0151 1
153 0152 1 NONE
154 0153 1
155 0154 1 EXTERNAL REFERENCES:
156 0155 1
157 0156 1
158 0157 1 EXTERNAL ROUTINE
159 0158 1 CLISGET VALUE, ! Get value from command line
160 0159 1 CLISPRESENT, ! Is qualifier present?
161 0160 1 LIB$RENAME_FILE, ! Rename files
162 0161 1 LIB$QUAL_FILE_MATCH, ! Match selection qualifiers
163 0162 1 LIB$QUAL_FILE_PARSE; ! Parse selection qualifiers
164 0163 1
165 0164 1 EXTERNAL LITERAL
166 0165 1 LIB$FILFAIMAT, ! File failed to match qualifiers
167 0166 1 LIB$QUICONACT, ! Quit confirm action
168 0167 1 LIB$QUIPRO, ! Quit processing
169 0168 1 RENAMES_NOTRENAMED, ! File not renamed
170 0169 1 RENAMES_NOTSAMEDEV; ! Can't rename across devices
171 0170 1

```



```

173 0171 1 %SBTTL 'RENAME_MAIN - Main routine'
174 0172 1 ROUTINE RENAME_MAIN =
175 0173 1
176 0174 1 !++
177 0175 1 FUNCTIONAL DESCRIPTION:
178 0176 1
179 0177 1 This is the main routine for RENAME. It calls LIB$QUAL_FILE_PARSE
180 0178 1 to parse the file selection qualifiers, sets up the local storage
181 0179 1 block, and calls LIB$RENAME_FILE to do the work. LIB$RENAME_FILE
182 0180 1 will call other routines in this module as action routines to
183 0181 1 process the command. Upon return from LIB$RENAME_FILE, the most
184 0182 1 severe error status will be returned as the exit status of RENAME
185 0183 1
186 0184 1 CALLING SEQUENCE:
187 0185 1
188 0186 1 ret_status.wlc.v = RENAME ()
189 0187 1
190 0188 1 FORMAL PARAMETERS:
191 0189 1
192 0190 1 NONE
193 0191 1
194 0192 1 IMPLICIT INPUTS:
195 0193 1
196 0194 1 Command line
197 0195 1
198 0196 1 IMPLICIT OUTPUTS:
199 0197 1
200 0198 1 NONE
201 0199 1
202 0200 1 COMPLETION STATUS:
203 0201 1
204 0202 1 SSS_NORMAL Normal successful completion
205 0203 1 RENAMES_NOFILES No files selected
206 0204 1 Other Worst error encountered
207 0205 1
208 0206 1 SIDE EFFECTS:
209 0207 1
210 0208 1 Renames one or more files.
211 0209 1
212 0210 1 --
213 0211 1
214 0212 2 BEGIN
215 0213 2
216 0214 2 LOCAL
217 0215 2 LOCAL_BLOCK: VOLATILE BLOCK [LB_K_SIZE, BYTE] FIELD (LB_FIELDS),
218 0216 2 QUAL_FLAGS, Qualifier select flags
219 0217 2 RENAME_FLAGS, Flags for LIB$RENAME_FILE
220 0218 2 OLD_NAME_DSC: BLOCK [8, BYTE], Old name descriptor
221 0219 2 NEW_NAME_DSC: BLOCK [8, BYTE], New name descriptor
222 0220 2 OLD_RSN_DSC: BLOCK [8, BYTE], Old RSN descriptor
223 0221 2 NEW_RSN_DSC: BLOCK [8, BYTE], New RSN descriptor
224 0222 2 CLI_STRING_DSC: BLOCK [8, BYTE], Qualifier and parameter names
225 0223 2 FILESCAN_CONTEXT, Related file context pointer
226 0224 2 STATUS1; Return status
227 0225 2
228 0226 2 !+
229 0227 2 ! Enable error handler which will keep track of the worst error

```

```

: 230      0228 2 | encountered so far. It will also unwind to the caller of RENAME
: 231      0229 2 | (the CLI) if the status LIB$QUIPRO is signalled. Note that because
: 232      0230 2 | LOCAL_BLOCK is a VOLATILE enable argument, BLISS zeroes it for us.
: 233      0231 2 |
: 234      0232 2 |
: 235      0233 2 |
: 236      0234 2 | ENABLE
: 237      0235 2 |     ERROR_HANDLER (LOCAL_BLOCK);
: 238      0236 2 |
: 239      0237 2 | +
: 240      0238 2 | | Set up strings and descriptors. All strings are dynamic.
: 241      0239 2 | -
: 242      0240 2 | FILESCAN_CONTEXT = 0;
: 243      0241 2 | OLD_RSN_DSC [DSC$W_LENGTH] = 0;
: 244      0242 2 | OLD_RSN_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
: 245      0243 2 | OLD_RSN_DSC [DSC$B_CLASS] = DSC$K_CLASS_D;
: 246      0244 2 | OLD_RSN_DSC [DSC$A_POINTER] = 0;
: 247      0245 2 | NEW_RSN_DSC [DSC$W_LENGTH] = 0;
: 248      0246 2 | NEW_RSN_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
: 249      0247 2 | NEW_RSN_DSC [DSC$B_CLASS] = DSC$K_CLASS_D;
: 250      0248 2 | NEW_RSN_DSC [DSC$A_POINTER] = 0;
: 251      0249 2 | OLD_NAME_DSC [DSC$W_LENGTH] = 0; | Initially zero length
: 252      0250 2 | OLD_NAME_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T; | Text
: 253      0251 2 | OLD_NAME_DSC [DSC$B_CLASS] = DSC$K_CLASS_D; | Dynamic
: 254      0252 2 | OLD_NAME_DSC [DSC$A_POINTER] = 0; | No allocation
: 255      0253 2 | NEW_NAME_DSC [DSC$W_LENGTH] = 0; | Initially zero length
: 256      0254 2 | NEW_NAME_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T; | Text
: 257      0255 2 | NEW_NAME_DSC [DSC$B_CLASS] = DSC$K_CLASS_D; | Dynamic
: 258      0256 2 | NEW_NAME_DSC [DSC$A_POINTER] = 0; | No allocation
: 259      0257 2 | CLI_STRING_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
: 260      0258 2 | CLI_STRING_DSC [DSC$B_CLASS] = DSC$K_CLASS_S;
: 261      0259 2 |
: 262      0260 2 | +
: 263      0261 2 | | Indicate which qualifiers we want parsed.
: 264      0262 2 | -
: 265      0263 2 |
: 266      0264 2 | QUAL_FLAGS = LIB$M_CQF_CONFIRM +
: 267      0265 2 |     LIB$M_CQF_EXCLUDE +
: 268      0266 2 |     LIB$M_CQF_BEFORE +
: 269      0267 2 |     LIB$M_CQF_SINCE +
: 270      0268 2 |     LIB$M_CQF_CREATED +
: 271      0269 2 |     LIB$M_CQF_MODIFIED +
: 272      0270 2 |     LIB$M_CQF_EXPIRED +
: 273      0271 2 |     LIB$M_CQF_BACKUP +
: 274      0272 2 |     LIB$M_CQF_BYOWNER;
: 275      0273 2 |
: 276      0274 2 | +
: 277      0275 2 | | Parse file selection qualifiers and save context.
: 278      0276 2 | -
: 279      0277 2 |
: 280      0278 2 | LIB$QUAL_FILE_PARSE (QUAL_FLAGS, LOCAL_BLOCK [LB_L_QUAL_CONTEXT]);
: 281      0279 2 |
: 282      0280 2 | +
: 283      0281 2 | | See if /LOG was specified.
: 284      0282 2 | -
: 285      0283 2 |
: 286      0284 2 | CLI_STRING_DSC [DSC$W_LENGTH] = %CHARCOUNT ('LOG');

```



```

287 0285 2 CLI_STRING_DSC [DSC$A_POINTER] = UPLIT BYTE ('LOG');
288 0286 2 IF CLISPRESNT (CLI_STRING_DSC)
289 0287 2 THEN
290 0288 2     LOCAL_BLOCK [LB_V_LOG] = 1;
291 0289 2
292 0290 2     !+
293 0291 2     ! See if /NONEW_VERSION was specified.
294 0292 2     !-
295 0293 2
296 0294 2     CLI_STRING_DSC [DSC$W_LENGTH] = %CHARCOUNT ('NEW VERSION');
297 0295 2     CLI_STRING_DSC [DSC$A_POINTER] = UPLIT BYTE ('NEW_VERSION');
298 0296 2     RENAME_FLAGS = 0;
299 0297 2     IF NOT CLISPRESNT (CLI_STRING_DSC)
300 0298 2     THEN
301 0299 2         RENAME_FLAGS = 1;          ! SET V_NONEW_VERSION bit
302 0300 2
303 0301 2     !+
304 0302 2     ! Get new filename, since there can only be one.
305 0303 2     !-
306 0304 2
307 0305 2     CLI_STRING_DSC [DSC$W_LENGTH] = %CHARCOUNT ('P2');
308 0306 2     CLI_STRING_DSC [DSC$A_POINTER] = UPLIT BYTE ('P2');
309 0307 2     CLISGET_VALUE (CLI_STRING_DSC, NEW_NAME_DSC);
310 0308 2
311 0309 2     !+
312 0310 2     ! Until all "old" filespecs are processed, get the next old filespec
313 0311 2     ! and call LIB$RENAME_FILE for each one. Use the previous old resultant
314 0312 2     ! filename as the related filename for each iteration.
315 0313 2     !-
316 0314 2
317 0315 2     CLI_STRING_DSC [DSC$W_LENGTH] = %CHARCOUNT ('P1');
318 0316 2     CLI_STRING_DSC [DSC$A_POINTER] = UPLIT BYTE ('P1');
319 0317 2     WHILE (CLISGET_VALUE (CLI_STRING_DSC, OLD_NAME_DSC)) DO
320 0318 2     BEGIN
321 0319 2         STATUS1 = LIB$RENAME_FILE (
322 0320 2             OLD_NAME_DSC,          ! Old name
323 0321 2             NEW_NAME_DSC,          ! New name
324 0322 2             0,                     ! No default name
325 0323 2             0,                     ! Related name - previous old RSN
326 0324 2             RENAME_FLAGS,         ! Rename flags
327 0325 2             LOG_ROUTINE,          ! Log routine
328 0326 2             ERROR_ROUTINE,         ! Error routine
329 0327 2             CONFIRM_ROUTINE,       ! Confirm routine
330 0328 2             LOCAL_BLOCK,           ! User argument
331 0329 2             OLD_RSN_DSC,           ! Old resultant name
332 0330 2             NEW_RSN_DSC,           ! New resultant name
333 0331 2             FILESCAN_CONTEXT);      ! Related file context
334 0332 2
335 0333 2         IF NOT .STATUS1
336 0334 2         THEN
337 0335 2             SIGNAL_STOP (.STATUS1);
338 0336 2         END;
339 0337 2
340 0338 2     !+
341 0339 2     ! If an error occurred, return the worst error.
342 0340 2     ! If no files were selected, return an informational to that effect.
343 0341 2     !-

```

RENAME  
V04-000

VAX/VMS RENAME Utility  
RENAME\_MAIN - Main routine

F 10  
16-Sep-1984 00:25:56  
14-Sep-1984 12:08:48

VAX-11 Bliss-32 V4.0-742  
[CLIUTL.SRC]RENAME.B32;1

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```

344 0342 2
345 0343 2 IF .LOCAL_BLOCK [LB_L_WORST_ERROR] NEQ 0
346 0344 2 THEN
347 0345 2 RETURN .LOCAL_BLOCK [LB_L_WORST_ERROR];
348 0346 2
349 0347 2 IF NOT .LOCAL_BLOCK [LB_V_FILE_SELECTED]
350 0348 2 THEN
351 0349 2 BEGIN
352 0350 2 SIGNAL (MSG$_NOFILES); ! Display message 'no files selected'
353 0351 2 RETURN MSG$_NOFILES; ! Won't get displayed again
354 0352 2 END;
355 0353 2
356 0354 2 RETURN SS$_NORMAL;
357 0355 2
358 0356 2 END;

```

! End of routine RENAME\_MAIN

.TITLE RENAME VAX/VMS RENAME Utility  
.IDENT \V04-000\

.PSECT \$CODE,NOWRT, SHR, PIC,2

```

4E 4F 49 53 52 45 56 5F 47 4F 4C 00000 P.AAA: .ASCII \LOG\
45 4E 00003 P.AAB: .ASCII \NEW_VERSION\
32 50 0000E P.AAC: .ASCII \P2\
31 50 00010 P.AAD: .ASCII \P1\

```

.EXTRN CLISGET VALUE, CLISPRESNT  
.EXTRN LIB\$RENAME FILE  
.EXTRN LIB\$QUAL\_FILE\_MATCH  
.EXTRN LIB\$QUAL\_FILE\_PARSE  
.EXTRN LIB\$FILFAIMAT, LIB\$QUICONACT  
.EXTRN LIB\$QUIPRO, RENAMES\$\_NOTRENAMED  
.EXTRN RENAMES\$\_NOTSAMEDEV

001C 00000 RENAME\_MAIN:

```

54 00000000G 00 9E 00002 .WORD Save R2,R3,R4
53 00000000G 00 9E 00009 MOVAB CLISGET VALUE, R4
5E 38 C2 00010 MOVAB CLISPRESNT, R3
2C AE 7C 00013 SUBL2 #56, SP
34 AE D4 00016 CLRQ LOCAL_BLOCK
6D 0103 CF DE 00019 CLRL LOCAL_BLOCK
18 AE 020E0000 7E D4 0001E MOVAL 7$, (FP)
1C AE D4 00020 CLRL FILESCAN CONTEXT
10 AE 020E0000 8F D0 00020 MOVL #34471936, OLD_RSN_DSC
14 AE D4 00028 CLRL OLD_RSN_DSC+4
28 AE 020E0000 8F D0 0002B MOVL #34471936, NEW_RSN_DSC
2C AE D4 00033 CLRL NEW_RSN_DSC+4
20 AE 020E0000 8F D0 00036 MOVL #34471936, OLD_NAME_DSC
24 AE D4 0003E CLRL OLD_NAME_DSC+4
0A AE 010E 8F D0 00041 MOVL #34471936, NEW_NAME_DSC
7E 01FF 8F D4 00049 CLRL NEW_NAME_DSC+4
38 AE 80 0004C MOVW #270, CLT_STRING_DSC+2
04 AE 9F 00052 MOVZWL #511, QUAC_FLAGS
00 02 FB 0005A PUSHAB LOCAL_BLOCK+4
00 02 FB 0005D PUSHAB QUAL_FLAGS
CALLS #2, LIB$QUAL_FILE_PARSE

```

0172  
0212  
0240  
0241  
0244  
0245  
0248  
0249  
0252  
0253  
0256  
0257  
0271  
0278



RENAME  
V04-000

VAX/VMS RENAME Utility  
RENAME\_MAIN - Main routine

G 10  
16-Sep-1984 00:25:56  
14-Sep-1984 12:08:48

VAX-11 Bliss-32 V4.0-742  
[CLIUTL.SRC]RENAME.B32;1

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0C	AE		03	B0	00064	MOVW	#3, CLI_STRING_DSC	0284
10	AE	83	AF	9E	00068	MOVAB	P.AAA, CLI_STRING_DSC+4	0285
		0C	AE	9F	0006D	PUSHAB	CLI_STRING_DSC	0286
	63		01	FB	00070	CALLS	#1, CLISPRESNT	
	04		50	E9	00073	BLBC	R0, 1\$	
3C	AE		01	88	00076	BISB2	#1, LOCAL_BLOCK+8	0288
0C	AE		0B	B0	0007A	MOVW	#11, CLI_STRING_DSC	0294
10	AE	FF6F	CF	9E	0007E	MOVAB	P.AAB, CLI_STRING_DSC+4	0295
		08	AE	D4	00084	CLRL	RENAME_FLAGS	0296
		0C	AE	9F	00087	PUSHAB	CLI_STRING_DSC	0297
	63		01	FB	0008A	CALLS	#1, CLISPRESNT	
	04		50	E8	0008D	BLBS	R0, 2\$	
08	AE		01	DO	00090	MOVL	#1, RENAME_FLAGS	0299
0C	AE		02	B0	00094	MOVW	#2, CLI_STRING_DSC	0305
10	AE	FF60	CF	9E	00098	MOVAB	P.AAC, CLI_STRING_DSC+4	0306
		24	AE	9F	0009E	PUSHAB	NEW_NAME_DSC	0307
		10	AE	9F	000A1	PUSHAB	CLI_STRING_DSC	
	64		02	FB	000A4	CALLS	#2, CLISGET_VALUE	
0C	AE	FF4F	02	B0	000A7	MOVW	#2, CLI_STRING_DSC	0315
10	AE	2C	CF	9E	000AB	MOVAB	P.AAD, CLI_STRING_DSC+4	0316
		10	AE	9F	000B1	PUSHAB	OLD_NAME_DSC	0317
			AE	9F	000B4	PUSHAB	CLI_STRING_DSC	
	64		02	FB	000B7	CALLS	#2, CLISGET_VALUE	
	3B		50	E9	000BA	BLBC	R0, 4\$	
		04	AE	9F	000BD	PUSHAB	FILESCAN_CONTEXT	0319
		18	AE	9F	000C0	PUSHAB	NEW_RSN_DSC	
		24	AE	9F	000C3	PUSHAB	OLD_RSN_DSC	
		40	AE	9F	000C6	PUSHAB	LOCAL_BLOCK	
		0000V	CF	9F	000C9	PUSHAB	CONFIRM_ROUTINE	
		0000V	CF	9F	000CD	PUSHAB	ERROR_ROUTINE	
		0000V	CF	9F	000D1	PUSHAB	LOG_ROUTINE	
		24	AE	9F	000D5	PUSHAB	RENAME_FLAGS	
			7E	7C	000D8	CLRG	-(SP)	
		4C	AE	9F	000DA	PUSHAB	NEW_NAME_DSC	
		58	AE	9F	000DD	PUSHAB	OLD_NAME_DSC	
00000000G	00		0C	FB	000E0	CALLS	#12, LIB\$RENAME_FILE	
	52		50	DO	000E7	MOVL	R0, STATUS1	0333
	C4		52	E8	000EA	BLBS	STATUS1, 3\$	0335
00000000G	00		52	DD	000ED	PUSHL	STATUS1	
			01	FB	000EF	CALLS	#1, LIB\$STOP	0317
			B9	11	000F6	BRB	3\$	0343
		34	AE	D5	000F8	TSTL	LOCAL_BLOCK	
			05	13	000FB	BEQL	5\$	
	50	34	AE	DO	000FD	MOVL	LOCAL_BLOCK, R0	0345
				04	00101	RET		
15	3C	AE	01	E0	00102	BBS	#1, LOCAL_BLOCK+8, 6\$	0347
		00901333	8F	DD	00107	PUSHL	#9442099	0350
00000000G	00		01	FB	0010D	CALLS	#1, LIB\$SIGNAL	
	50	00901333	8F	DO	00114	MOVL	#9442099, R0	0351
				04	0011B	RET		
	50		01	DO	0011C	MOVL	#1, R0	0354
				04	0011F	RET		0356
			0000	00120		.WORD	Save nothing	0212
	50		AC	DO	00122	MOVL	8(AP), R0	
	50		A0	DO	00126	MOVL	4(R0), R0	
		F4	A0	9F	0012A	PUSHAB	LOCAL_BLOCK	
			01	DD	0012D	PUSHL	#1	

RENAME  
V04-000

VAX/VMS RENAME Utility  
RENAME\_MAIN - Main routine

H 10  
16-Sep-1984 00:25:56  
14-Sep-1984 12:08:48

VAX-11 Bliss-32 V4.0-742  
[CLIUTL.SRC]RENAME.B32;1

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0000V 7E 04 5E DD 0012F  
CF AC 7D 00131  
03 FB 00135  
04 0013A

PUSHL SP  
MOVQ 4(AP), -(SP)  
CALLS #3, ERROR\_HANDLER  
RET

⋮

; Routine Size: 315 bytes, Routine Base: \$CODE + 0012



RENAME  
V04-000

VAX/VMS RENAME Utility

CONFIRM\_ROUTINE - Confirm that rename should be

I 10  
16-Sep-1984 00:25:56  
14-Sep-1984 12:08:48

VAX-11 Bliss-32 V4.0-742  
[CLIUTL.SRC]RENAME.B32;1

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```

360 0357 1 %SBTTL 'CONFIRM_ROUTINE - Confirm that rename should be done'
361 0358 1 ROUTINE CONFIRM_ROUTINE (
362 0359 1     OLD_RSN: REF BLOCK [, BYTE],      ! Old resultant string descriptor
363 0360 1     NEW_RSN: REF BLOCK [, BYTE],      ! New resultant string descriptor
364 0361 1     FAB: REF BLOCK [, BYTE],          ! File's FAB
365 0362 1     LOCAL_BLOCK: REF BLOCK [LB_K_SIZE, BYTE] FIELD (LB_FIELDS)
366 0363 1 ) =
367 0364 1
368 0365 1 !++
369 0366 1 FUNCTIONAL DESCRIPTION:
370 0367 1
371 0368 1     This routine is called by LIB$RENAME_FILE to confirm that the
372 0369 1     file described by FAB should be renamed.
373 0370 1
374 0371 1 CALLING SEQUENCE:
375 0372 1
376 0373 1     confirm.wv.v = CONFIRM_ROUTINE (OLD_RSN.rt.dd, NEW_RSN.rt.dd,
377 0374 1     FAB.rr.r, LOCAL_BLOCK.mr.r)
378 0375 1
379 0376 1 FORMAL PARAMETERS:
380 0377 1
381 0378 1     OLD_RSN      - Old resultant name.
382 0379 1
383 0380 1     NEW_RSN      - New resultant name.
384 0381 1
385 0382 1     FAB          - FAB that describes file to be renamed.
386 0383 1
387 0384 1     LOCAL_BLOCK - Block of local information.
388 0385 1
389 0386 1 IMPLICIT INPUTS:
390 0387 1
391 0388 1     NONE
392 0389 1
393 0390 1 IMPLICIT OUTPUTS:
394 0391 1
395 0392 1     NONE
396 0393 1
397 0394 1 ROUTINE VALUE:
398 0395 1
399 0396 1     TRUE if file should be renamed
400 0397 1     FALSE if file should not be renamed
401 0398 1
402 0399 1 SIDE EFFECTS:
403 0400 1
404 0401 1     NONE
405 0402 1
406 0403 1 !--
407 0404 1
408 0405 2 BEGIN
409 0406 2
410 0407 2 LOCAL
411 0408 2     PROMPT_ARGS: VECTOR [2, LONG],      ! FAO argument list for prompt
412 0409 2     PROMPT_DSC: BLOCK [8, BYTE],        ! Descriptor for prompt string
413 0410 2     MATCH_STATUS;                      ! Status from QUAL_FILE_MATCH
414 0411 2
415 0412 2 !+
416 0413 2 ! Set up PROMPT_ARGS and PROMPT_DSC.
```

```

417 0414 2  !-
418 0415 2
419 0416 2 PROMPT_ARGS [0] = OLD_RSN [0,0,0,0];      ! Descriptor address
420 0417 2 PROMPT_ARGS [1] = NEW_RSN [0,0,0,0];      ! Descriptor address
421 0418 2 PROMPT_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
422 0419 2 PROMPT_DSC [DSC$B_CLASS] = DSC$K_CLASS_S;
423 0420 2 PROMPT_DSC [DSC$W_LENGTH] = %CHARCOUNT ('!AS --> !AS ? (Y,N,Q,ALL): ');
424 0421 2 PROMPT_DSC [DSC$A_POINTER] = UPLIT BYTE ('!AS --> !AS ? (Y,N,Q,ALL): ');
425 0422 2
426 0423 2
427 0424 2 !+ Call LIB$QUAL_FILE_MATCH to see if this file meets the criteria.
428 0425 2 !-
429 0426 2
430 0427 2 MATCH_STATUS = LIB$QUAL_FILE_MATCH (
431 0428 2     LOCAL_BLOCK [LB_L_QUAL_CONTEXT],
432 0429 2     FAB [0,0,0,0],
433 0430 2     0,      ! File name omitted
434 0431 2     PROMPT_DSC,
435 0432 2     PROMPT_ARGS,
436 0433 2     0);      ! Prompt routine omitted
437 0434 2
438 0435 2
439 0436 2 !+ If a failure status other than "failed to match" was returned,
440 0437 2 signal it. If it is LIB$QUIPRO, ERROR_HANDLER will unwind back to
441 0438 2 the CLI with a success status.
442 0439 2 !-
443 0440 2
444 0441 2 IF NOT .MATCH_STATUS
445 0442 2 THEN
446 0443 2     IF .MATCH_STATUS NEQU LIB$_FILFAIMAT
447 0444 2     THEN
448 0445 2         IF (.MATCH_STATUS EQLU LIB$_QUIPRO) OR (.FAB [FAB$L_STS])
449 0446 2         THEN
450 0447 2             SIGNAL (.MATCH_STATUS)
451 0448 2         ELSE
452 0449 2             BEGIN
453 0450 2                 !+ LIB$QUAL_FILE_MATCH couldn't open the file.
454 0451 2                 !- Signal "error opening file".
455 0452 2
456 0453 2
457 0454 2             LOCAL
458 0455 2                 NAM: REF BLOCK [, BYTE],
459 0456 2                 RSN_DESCR: BLOCK [8, BYTE];
460 0457 2                 NAM = .FAB [FAB$L_NAM];
461 0458 2                 RSN_DESCR [DSC$B_DTYPE] = DSC$K_DTYPE_T;
462 0459 2                 RSN_DESCR [DSC$B_CLASS] = DSC$K_CLASS_S;
463 0460 2                 RSN_DESCR [DSC$W_LENGTH] = .NAM [NAM$B_RSL];
464 0461 2                 RSN_DESCR [DSC$A_POINTER] = .NAM [NAM$B_RSA];
465 0462 2                 SIGNAL (MSG$OPENIN, 1, RSN_DESCR,
466 0463 2                     .FAB [FAB$L_STS], .FAB [FAB$L_STV]);
467 0464 2             END;
468 0465 2
469 0466 2
470 0467 2 !+
471 0468 2 !- If this file was selected, indicate that in LOCAL_BLOCK.
472 0469 2
473 0470 2

```



```
! End of routine CONFIRM_ROUTINE
```

...

			003C	00000	CONFIRM_ROUTINE:		
	55	00000000G	00	9E	00002	.WORD	Save R2,R3,R4,R5
	5E		18	C2	00009	MOVAB	LIB\$SIGNAL, R5
10	AE	04	AC	7D	0000C	SUBL2	#24, SP
08	AE	010E001B	8F	D0	00011	MOVQ	OLD_RSN, PROMPT_ARGS
OC	AE	C9	AF	9E	00019	MOVL	#17894747, PROMPT_DSC
			7E	D4	0001E	MOVAB	P.AAE, PROMPT_DSC+4
		14	AE	9F	00020	CLRL	-(SP)
		10	AE	9F	00023	PUSHAB	PROMPT_ARGS
			7E	D4	00026	PUSHAB	PROMPT_DSC
52		OC	AC	7D	00028	CLRL	-(SP)
		04	52	DD	0002C	MOVQ	FAB, R2
			A3	9F	0002E	PUSHL	R2
00000000G	00		06	FB	00031	PUSHAB	4(R3)
	54		50	D0	00038	CALLS	#6, LIB\$QUAL_FILE_MATCH
	45		54	E8	0003B	MOVL	R0, MATCH_STATUS
00000000G	8F		54	D1	0003E	BLBS	MATCH_STATUS, 4\$
			39	13	00045	CMPL	MATCH_STATUS, #LIB\$_FILFAIMAT
00000000G	8F		54	D1	00047	BEQL	3\$
			04	13	0004E	CMPL	MATCH_STATUS, #LIB\$_QUIPRO
	07	08	A2	E9	00050	BEQL	1\$
			54	DD	00054	BLBC	8(R2), 2\$
	65		01	FB	00056	PUSHL	MATCH_STATUS
			25	11	00059	CALLS	#1, LIB\$SIGNAL
	50	28	A2	D0	0005B	BRB	3\$
02	AE	010E	8F	B0	0005F	MOVL	40(R2), NAM
	6E	03	A0	9B	00065	MOVW	#270, RSN_DESCR+2
04	AE	04	A0	D0	00069	MOVZBW	3(NAM), RSN_DESCR
	7E	08	A2	7D	0006E	MOVL	4(NAM), RSN_DESCR+4
		08	AE	9F	00072	MOVQ	8(R2), -(SP)
			01	DD	00075	PUSHAB	RSN_DESCR
		0090109A	8F	DD	00077	PUSHL	#1
	65		05	FB	0007D	PUSHL	#9441434
	04		54	E9	00080	CALLS	#5, LIB\$SIGNAL
08	A3		02	88	00083	BLBC	MATCH_STATUS, 5\$
	50		54	D0	00087	BISB2	#2, 8(R3)
			04	0008A	MOVL	MATCH_STATUS, R0	
					RET		

RENAME  
V04-000

VAX/VMS RENAME Utility  
CONFIRM\_ROUTINE - Confirm that rename should be

L 10  
16-Sep-1984 00:25:56  
14-Sep-1984 12:08:48

VAX-11 Bliss-32 V4.0-742  
[CLIUTL.SRC]RENAME.B32;1

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; Routine Size: 139 bytes,      Routine Base: \$CODE + 0168



```

486 0482 1 XSBTTL 'LOG_ROUTINE - Log successful rename'
487 0483 1 ROUTINE LOG_ROUTINE (
488 0484 1     OLD_RSN: REF BLOCK [, BYTE],      ! Old resultant name
489 0485 1     NEW_RSN: REF BLOCK [, BYTE],      ! New resultant name
490 0486 1     LOCAL_BLOCK: REF BLOCK [LB_K_SIZE, BYTE] FIELD (LB_FIELDS)
491 0487 1     ): NOVALUE =
492 0488 1
493 0489 1 ++
494 0490 1 FUNCTIONAL DESCRIPTION:
495 0491 1
496 0492 1     This routine is called by LIB$RENAME_FILE after a successful
497 0493 1     rename.  If /LOG was specified, a message indicating the names
498 0494 1     of the files renamed is displayed.
499 0495 1
500 0496 1 CALLING SEQUENCE:
501 0497 1
502 0498 1     CALL LOG_ROUTINE (OLD_RSN.rt.dd, NEW_RSN.rt.dd,
503 0499 1                     LOCAL_BLOCK.mr.r)
504 0500 1
505 0501 1 FORMAL PARAMETERS:
506 0502 1
507 0503 1     OLD_RSN          - Old resultant name.
508 0504 1
509 0505 1     NEW_RSN          - New resultant name.
510 0506 1
511 0507 1     LOCAL_BLOCK     - Block of local information.
512 0508 1
513 0509 1 IMPLICIT INPUTS:
514 0510 1
515 0511 1     NONE
516 0512 1
517 0513 1 IMPLICIT OUTPUTS:
518 0514 1
519 0515 1     NONE
520 0516 1
521 0517 1 ROUTINE VALUE:
522 0518 1
523 0519 1     NONE
524 0520 1
525 0521 1 SIDE EFFECTS:
526 0522 1
527 0523 1     NONE
528 0524 1
529 0525 1 --
530 0526 1
531 0527 2 BEGIN
532 0528 2
533 0529 2 !+
534 0530 2 ! If /LOG was specified, log the rename.
535 0531 2 !-
536 0532 2
537 0533 2 IF .LOCAL_BLOCK [LB_V_LOG]
538 0534 2 THEN
539 0535 2     SIGNAL (MSG$_RENAMED, 2, OLD_RSN [0,0,0,0], NEW_RSN [0,0,0,0]);
540 0536 2
541 0537 2 RETURN;
542 0538 2

```

: 543

0539 1 END;

```
! End of routine LOG_ROUTINE
```

```
VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]RENAME.B32;1
```

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```

0000 00000 LOG_ROUTINE:
          50          0C      AC  D0 00002          .WORD      Save nothing
          13          08      AO  E9 00006          MOVL      LOCAL_BLOCK, R0
          7E          04      AC  7D 0000A          BLBC      8(R0), 1$
                                MOVQ      OLD_RSN, -(SP)
                                02  DD 0000E          PUSHL     #2
                                8F  DD 00010          PUSHL     #9441955
00000000G  00          04      FB 00016          CALLS    #4, LIB$SIGNAL
                                04 0001D 1$:      RET

```

; Routine Size: 30 bytes, Routine Base: \$CODE + 01F3

: 0483  
 : 0533  
 :  
 : 0535  
 :  
 :  
 :  
 : 0539



```

545 0540 1 %SBTTL 'ERROR_ROUTINE - Report failed rename'
546 0541 1 ROUTINE ERROR_ROUTINE (
547 0542 1     OLD_RSN: REF BLOCK [, BYTE],      ! Old resultant name
548 0543 1     NEW_RSN: REF BLOCK [, BYTE],      ! New resultant name
549 0544 1     RMS_STS: REF BLOCK [, BYTE],      ! RMS STS status code
550 0545 1     RMS_STV: REF BLOCK [, BYTE],      ! RMS STV status code
551 0546 1     ERROR_SOURCE: REF VECTOR [, LONG], ! Source of error code
552 0547 1     LOCAL_BLOCK: REF BLOCK [LB_K_SIZE, BYTE] FIELD (LB_FIELDS)
553 0548 1 ) =
554 0549 1
555 0550 1 ++
556 0551 1 FUNCTIONAL DESCRIPTION:
557 0552 1
558 0553 1     This routine is called by LIB$RENAME_FILE after a failed
559 0554 1     rename. The error message is signalled.
560 0555 1
561 0556 1 CALLING SEQUENCE:
562 0557 1
563 0558 1     status.wlc.v = ERROR_ROUTINE (OLD_RSN.rt.dd, NEW_RSN.rt.dd,
564 0559 1     RMS_STS.rlc.r, RMS_STV.rlc.r,
565 0560 1     ERROR_SOURCE.rl.r, LOCAL_BLOCK.mr.r)
566 0561 1
567 0562 1 FORMAL PARAMETERS:
568 0563 1
569 0564 1     OLD_RSN          - Old resultant name.
570 0565 1
571 0566 1     NEW_RSN          - New resultant name.
572 0567 1
573 0568 1     RMS_STS          - The RMS STS condition code
574 0569 1
575 0570 1     RMS_STV          - The RMS STV condition code
576 0571 1
577 0572 1     ERROR_SOURCE     - An integer that indicates where the error occurred.
578 0573 1                     0 = Error from LIB$FILE_SCAN
579 0574 1                     1 = Error from $PARSE
580 0575 1                     2 = Error from $RENAME
581 0576 1     LOCAL_BLOCK     - Block of local information.
582 0577 1
583 0578 1 IMPLICIT INPUTS:
584 0579 1
585 0580 1     NONE
586 0581 1
587 0582 1 IMPLICIT OUTPUTS:
588 0583 1
589 0584 1     NONE
590 0585 1
591 0586 1 ROUTINE VALUE:
592 0587 1
593 0588 1     $$$_NORMAL
594 0589 1
595 0590 1 SIDE EFFECTS:
596 0591 1
597 0592 1     Signals the error
598 0593 1
599 0594 1 --
600 0595 1
601 0596 2 BEGIN

```



```

: 602 0597
: 603 0598
: 604 0599
: 605 0600
: 606 0601
: 607 0602
: 608 0603
: 609 0604
: 610 0605
: 611 0606
: 612 0607
: 613 0608
: 614 0609
: 615 0610
: 616 0611
: 617 0612
: 618 0613
: 619 0614
: 620 0615
: 621 0616
: 622 0617
: 623 0618
: 624 0619
: 625 0620
: 626 0621
: 627 0622
: 628 0623
: 629 0624
: 630 0625
: 631 0626
: 632 0627
: 633 0628
: 634 0629
: 635 0630
: 636 0631
: 637 0632
: 638 0633
: 639 0634
: 640 0635
: 641 0636

!+
!- Case on the error source code to signal the proper message.
!-

CASE .ERROR_SOURCE [0] FROM 0 TO 2 OF
  SET
    [0]: ! Error searching for file
    BEGIN
      SIGNAL (MSG$_SEARCHFAIL, 1, OLD_RSN [0,0,0,0],
        .RMS_STS [0,0,32,0], .RMS_STV [0,0,32,0]);
    END;
    [1]: ! Error during $PARSE of new filespec
    BEGIN
      SIGNAL (MSG$_OPENOUT, 1, NEW_RSN [0,0,0,0],
        .RMS_STS [0,0,32,0], .RMS_STV [0,0,32,0]);
    END;
    [2]: ! Error during $RENAME
    BEGIN
      !+
      !- If error is RMS$_DEV then assume the user is trying to
      !- rename across devices and give a specific message.
      !-
      IF .RMS_STS [0,0,32,0] EQL RMS$_DEV
      THEN
        SIGNAL (RENAMES$_NOTRENAMED, 1, OLD_RSN [0,0,0,0],
          RENAMES$_NOTSAMEDEV)
      ELSE
        SIGNAL (MSG$_OPENIN, 1, OLD_RSN [0,0,0,0],
          .RMS_STS [0,0,32,0], .RMS_STV [0,0,32,0]);
      END;
    TES;
  RETURN SS$_NORMAL; ! Continue renaming
END; ! End of routine ERROR_ROUTINE

```

```

                                0004 00000 ERROR_ROUTINE:
                                .WORD
                                Save R2
                                52 00000000G 00 9E 00002 MOVAB LIB$SIGNAL, R2
                                00 14 BC CF 00009 CASEL @ERROR_SOURCE, #0, #2
                                0019 0006 0000E 1$: .WORD 2$-1$,=
                                                                3$-1$,=
                                                                4$-1$
                                                                @RMS_STV
                                                                @RMS_STS
                                                                OLD_RSN
                                                                #1
                                                                #9441850
                                10 BC DD 00014 2$: PUSHL
                                0C BC DD 00017 PUSHL
                                04 AC DD 0001A PUSHL
                                01 DD 0001D PUSHL
                                0090123A 8F DD 0001F PUSHL

```

```

: 0541
: 0602
:
: 0608
: 0607
:

```



RENAME  
V04-000

VAX/VMS RENAME Utility  
ERROR\_ROUTINE - Report failed rename

D 11  
16-Sep-1984 00:25:56  
14-Sep-1984 12:08:48

VAX-11 Bliss-32 V4.0-742  
[CLIUTL.SRC]RENAME.B32;1

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		44	11	00025	BRB	6\$	
	10	BC	DD	00027	PUSHL	@RMS-STV	0614
	0C	BC	DD	0002A	PUSHL	@RMS-STS	
	08	AC	DD	0002D	PUSHL	NEW_RSN	0613
		01	DD	00030	PUSHL	#1	
	009010A2	8F	DD	00032	PUSHL	#9441442	
		31	11	00038	BRB	6\$	
000184C4	8F	0C	BC	D1 0003A	CMPL	@RMS-STS, #99524	0624
		16	12	00042	BNEQ	5\$	
	00000000G	8F	DD	00044	PUSHL	#RENAMES_NOTSAMEDEV	0626
	04	AC	DD	0004A	PUSHL	OLD_RSN	
		01	DD	0004D	PUSHL	#1	
	00000000G	8F	DD	0004F	PUSHL	#RENAMES_NOTRENAMED	
62		04	FB	00055	CALLS	#4, LIB\$SIGNAL	
		14	11	00058	BRB	7\$	
	10	BC	DD	0005A	PUSHL	@RMS-STV	0630
	0C	BC	DD	0005D	PUSHL	@RMS-STS	
	04	AC	DD	00060	PUSHL	OLD_RSN	0629
		01	DD	00063	PUSHL	#1	
	0090109A	8F	DD	00065	PUSHL	#9441434	
62		05	FB	0006B	CALLS	#5, LIB\$SIGNAL	
50		01	DD	0006E	MOVL	#1, R0	0634
		04	00071	RET			0636

; Routine Size: 114 bytes, Routine Base: \$CODE + 0211

```

643 0637 1 %SBTTL 'ERROR_HANDLER - Condition handler'
644 0638 1 ROUTINE ERROR_HANDLER(
645 0639 1     SIGARGS: REF BLOCK [, BYTE],      ! Signal argument list
646 0640 1     MCHARGS: REF BLOCK [, BYTE],      ! Mechanism argument list
647 0641 1     ENBARGS: REF VECTOR [, LONG]      ! Enable argument list
648 0642 1 ) =
649 0643 1
650 0644 1 !++
651 0645 1 FUNCTIONAL DESCRIPTION:
652 0646 1
653 0647 1     This is the condition handler for RENAME_MAIN. It stores the
654 0648 1     "worst error" in the LOCAL_BLOCK. If the error is LIB$QUIPRO,
655 0649 1     caused by the user typing Quit to the confirm prompt, an unwind
656 0650 1     with status $$$NORMAL is done to the caller of RENAME_MAIN.
657 0651 1
658 0652 1 CALLING SEQUENCE:
659 0653 1
660 0654 1     ret_status.wlc.v = ERROR_HANDLER (sigargs.rbu.ra, mchargs.mbu.ra,
661 0655 1     enbargs.mbu.ra)
662 0656 1
663 0657 1 FORMAL PARAMETERS:
664 0658 1
665 0659 1     SIGARGS      - The signal arguments list
666 0660 1
667 0661 1     MCHARGS      - The mechanism arguments list
668 0662 1
669 0663 1     ENBARGS      - The enable arguments list. It is an array of
670 0664 1     two longwords, the second of which is the
671 0665 1     address of LOCAL_BLOCK.
672 0666 1
673 0667 1 IMPLICIT INPUTS:
674 0668 1
675 0669 1     NONE
676 0670 1
677 0671 1 IMPLICIT OUTPUTS:
678 0672 1
679 0673 1     NONE
680 0674 1
681 0675 1 ROUTINE VALUE:
682 0676 1
683 0677 1     $$$RESIGNAL
684 0678 1
685 0679 1 SIDE EFFECTS:
686 0680 1
687 0681 1     NONE
688 0682 1
689 0683 1 !--
690 0684 1
691 0685 2 BEGIN
692 0686 2
693 0687 2 LOCAL
694 0688 2     LOCAL_BLOCK: REF BLOCK [, BYTE] FIELD (LB_FIELDS),
695 0689 2     OLD_CODE: BLOCK [4, BYTE],      ! Old status
696 0690 2     NEW_CODE: BLOCK [4, BYTE];      ! New status
697 0691 2
698 0692 2 !+
699 0693 2 ! Check to see if this is an unwind. If so, return.

```



```

: 700      0694 2      ! Also return if the message is a success status.
: 701      0695      !-
: 702      0696
: 703      0697 NEW_CODE = .SIGARGS [CHF$! SIG_NAME];
: 704      0698 IF T.NEW_CODE) OR (.NEW_CODE EQLU SSS_UNWIND)
: 705      0699 THEN
: 706      0700     RETURN SSS_RESIGNAL;
: 707      0701
: 708      0702      !+
: 709      0703      ! Check to see if this is LIB$QUIPRO.  If so, unwind.
: 710      0704      !-
: 711      0705
: 712      0706 IF .NEW_CODE EQLU LIB$QUIPRO
: 713      0707 THEN
: 714      0708     BEGIN
: 715      0709     MCHARGS [CHF$!_MCH SAVRO] = SSS_NORMAL; ! Restore status of R0
: 716      0710     SUNWIND (); ! Unwind to caller of establisher
: 717      0711     RETURN SSS_RESIGNAL;
: 718      0712     END;
: 719      0713
: 720      0714      !+
: 721      0715      ! If this status is "worse" than the previous worst status, save it.
: 722      0716      !-
: 723      0717
: 724      0718 LOCAL_BLOCK = .ENBARGS [1];
: 725      0719 OLD_CODE = .LOCAL_BLOCK [LB_L_WORST_ERROR];
: 726      0720 IF .NEW_CODE [STSSV_SEVERITY] GTRU .OLD_CODE [STSSV_SEVERITY]
: 727      0721 THEN
: 728      0722     LOCAL_BLOCK [LB_L_WORST_ERROR] = .NEW_CODE + STSM_INHIB_MSG;
: 729      0723
: 730      0724 RETURN SSS_RESIGNAL;
: 731      0725
: 732      0726 1
END;
! End of routine ERROR_HANDLER

```

.EXTRN SYSSUNWIND

000C 00000 ERROR\_HANDLER:

	50	04	AC	D0	00002	.WORD	Save R2,R3	0638
	52	04	A0	D0	00006	MOVL	SIGARGS, R0	0697
	43		52	E8	0000A	BLBS	4(R0), NEW_CODE	
00000920	8F		52	D1	0000D	CMPL	NEW_CODE, 2\$	0698
			3A	13	00014	BEQL	NEW_CODE, #2336	
00000000G	8F		52	D1	00016	CMPL	2\$	
			13	12	0001D	BNEQ	NEW_CODE, #LIB\$QUIPRO	0706
	50	08	AC	D0	0001F	MOVL	1\$	
0C	A0		01	D0	00023	MOVL	MCHARGS, R0	0709
			7E	7C	00027	MOVL	#1, 12(R0)	
00000000G	00		02	FB	00029	CLRQ	-(SP)	0710
			1E	11	00030	CALLS	#2, SYSSUNWIND	
	50	0C	AC	D0	00032	BRB	2\$	0711
	50	04	A0	D0	00036	MOVL	ENBARGS, R0	0718
	51		60	D0	0003A	MOVL	4(R0), LOCAL_BLOCK	
53	51		00	D0	0003D	MOVL	(LOCAL_BLOCK), OLD_CODE	0719
53	52		00	EF	0003D	EXTZV	#0, #3, OLD_CODE, R3	0720
			00	ED	00042	CMPZV	#0, #3, NEW_CODE, R3	

RENAME  
V04-000

VAX/VMS RENAME Utility  
ERROR\_HANDLER - Condition handler

6 11  
16-Sep-1984 00:25:56  
14-Sep-1984 12:08:48

VAX-11 Bliss-32 V4.0-742  
[CLIUTL.SRC]RENAME.B32;1

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60	10000000	07	1B	00047	BLEQU	2\$	
50	0918	E2	9E	00049	MOVAB	268435456(R2),	(LOCAL_BLOCK)
		8F	3C	00050	MOVZWL	#2328, R0	
		04	00055	2\$:	RET		

: 0722  
: 0724  
: 0726

; Routine Size: 86 bytes, Routine Base: \$CODE + 0283



RENAME  
V04-000

VAX/VMS RENAME Utility  
ERROR\_HANDLER - Condition handler

H 11  
16-Sep-1984 00:25:56  
14-Sep-1984 12:08:48

VAX-11 Bliss-32 V4.0-742  
[CLIUTL.SRC]RENAME.B32;1

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: 734 0727 1 END  
: 735 0728 1  
: 736 0729 0 ELUDOM

! End of module RENAME

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

:  
: Name Bytes Attributes  
: \$CODE 729 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

:  
: File Total Symbols Loaded Percent Pages Mapped Processing Time  
: \_\$255\$DUA28:[SYSLIB]STARLET.L32;1 9776 41 0 581 00:01.0

COMMAND QUALIFIERS

:  
: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:RENAME/OBJ=OBJ\$:RENAME MSRC\$:RENAME/UPDATE=(ENH\$:RENAME)

: Size: 684 code + 45 data bytes  
: Run Time: 00:14.9  
: Elapsed Time: 00:50.0  
: Lines/CPU Min: 2931  
: Lexemes/CPU-Min: 19025  
: Memory Used: 103 pages  
: Compilation Complete



0051 AH-BT13A-SE  
VAX/VMS V4.0

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